

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2005/008559

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01R12/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H01R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)
EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 902 146 A (HANAMI ET AL) 11 May 1999 (1999-05-11) column 2, line 54 - column 4, line 24; figures 1,2	1-3,7,9
Y	-----	8
A	EP 1 337 009 A (SUMITOMO WIRING SYSTEMS, LTD) 20 August 2003 (2003-08-20) paragraph '00541; figure 1	4
A	US 4 632 486 A (HASIRCOGLU ET AL) 30 December 1986 (1986-12-30) column 2, line 30 - line 35	5
Y	US 4 464 002 A (SUZUKI ET AL) 7 August 1984 (1984-08-07) figures 4-7	8
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the International filing date but later than the priority date claimed

"T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"A" document member of the same patent family

Date of the actual completion of the International search

28 June 2005

Date of mailing of the International search report

08/07/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>PATENT ABSTRACTS OF JAPAN vol. 2002, no. 05, 3 May 2002 (2002-05-03) & JP 2002 025667 A (HIROSE ELECTRIC CO LTD), 25 January 2002 (2002-01-25) cited in the application abstract; figures 4,5,7-10 -----</p>	4

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/US2005/008559

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5902146	A	11-05-1999	JP	3131155 B2	31-01-2001
			JP	10027636 A	27-01-1998
EP 1337009	A	20-08-2003	JP	2003243072 A	29-08-2003
			JP	2003243103 A	29-08-2003
			JP	2003243089 A	29-08-2003
			JP	2003257512 A	12-09-2003
			CN	1438740 A	27-08-2003
			DE	60300584 D1	09-06-2005
			EP	1337009 A2	20-08-2003
			US	2003171032 A1	11-09-2003
US 4632486	A	30-12-1986	AU	581389 B2	16-02-1989
			AU	5795886 A	04-12-1986
			BR	8602388 A	21-01-1987
			CA	1235205 A1	12-04-1988
			EP	0203793 A2	03-12-1986
			JP	61273881 A	04-12-1986
			US	4697862 A	06-10-1987
US 4464002	A	07-08-1984	JP	56168372 A	24-12-1981
			JP	56175970 U	25-12-1981
			JP	63035489 Y2	20-09-1988
			DE	3169952 D1	23-05-1985
			EP	0043183 A1	06-01-1982
JP 2002025667	A	25-01-2002	TW	493810 Y	01-07-2002
			US	2002006744 A1	17-01-2002